

Title (en)
AN ARRANGEMENT FOR AND A METHOD OF CONTROLLING FLOW OF SOLID PARTICLES AND A FLUIDIZED BED REACTOR

Title (de)
ANORDNUNG UND VERFAHREN ZUR STEUERUNG DER STRÖMUNG VON FESTSTOFFPARTIKELN UND WIRBELBETTREAKTOR

Title (fr)
AGENCEMENT ET PROCÉDÉ DE COMMANDE D'ÉCOULEMENT DE PARTICULES SOLIDES ET RÉACTEUR À LIT FLUIDISÉ

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Application
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Abstract (en)
[origin: WO2020039117A1] A method of and an arrangement (40) for controlling a flow of solid particles, the arrangement comprising a vertical inlet pipe (16') for directing the flow of solid particles downwards therein and having a bottom (50) at a level L0, a first outlet chute (26') and a second outlet chute (34') in particle flow connection with the vertical inlet pipe and fluidizing means (60, 62, 64, 68, 76) for directing controlled first and second sub flows formed from the flow of solid particles to the first and second outlet chutes, respectively, wherein the arrangement (40) comprises a branch (42, 42', 42'') in particle flow connection with an opening (72) on a side wall of the vertical inlet pipe (16') for directing the first sub flow of solid particles to the first outlet chute (26'), wherein the opening (72) has a lower edge at a level L1 that is higher than L0, and a horizontally extending intermediate pipe (46) for directing the second sub flow of solid particles to the second outlet chute (34'), the horizontally extending intermediate pipe comprising at least one nozzle (60, 62, 64) for feeding fluidizing gas to the horizontally extending intermediate pipe and having a first end (48) in particle flow connection with the bottom (50) of the vertical inlet pipe (16') at the level L0 and a second end (52) in particle flow connection with a bottom end (54) of a vertically extending riser pipe (56), an upper end (70) of the vertically extending riser pipe (56) being in particle flow connection with the second outlet chute (34') at a level L2 that is higher than L1.

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